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L4 ANSWER 1 OF 9 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN

ACCESSION NUMBER: 2002:613006 SCISEARCH

THE GENUINE ARTICLE: 574VC

TITLE:

Immunization with a polyprotein vaccine consisting of the

T-cell antigens thiol-specific antioxidant, Leishmania

major stress-inducible protein 1, and Leishmania elongation initiation factor protects against

leishmaniasis

AUTHOR: Coler R N (Reprint); Skeiky Y A W; Bernards K; Greeson K;

Carter D; Cornellison C D; Modabber F; Campos-Neto A; Reed

SG

CORPORATE SOURCE: Infect Dis Res Inst, 1124 Columbia St, Suite 600, Seattle,

WA 98104 USA (Reprint); Infect Dis Res Inst, Seattle, WA

98104 USA; Corixa Corp, Seattle, WA 98104 USA

COUNTRY OF AUTHOR: US

SOURCE: INFECTION AND IMMUNITY, (AUG 2002) Vol. 70, No. 8, pp.

4215-4225.

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NEWS 9 NOV 24 MSDS-CCOHS file reloaded
NEWS 10 DEC 08 CABA reloaded with left truncation
NEWS 11 DEC 08 IMS file names changed
NEWS 12 DEC 09 Experimental property data collected by CAS now available
                in REGISTRY
NEWS 13 DEC 09 STN Entry Date available for display in REGISTRY and CA/CAplus
NEWS 14 DEC 17 DGENE: Two new display fields added
NEWS 15 DEC 18 BIOTECHNO no longer updated
NEWS 16 DEC 19 CROPU no longer updated; subscriber discount no longer
                available
        DEC 22 Additional INPI reactions and pre-1907 documents added to CAS
NEWS 17
                databases
NEWS 18
        DEC 22 IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields
        DEC 22 ABI-INFORM now available on STN
NEWS 19
NEWS 20
        JAN 27 Source of Registration (SR) information in REGISTRY updated
                and searchable
NEWS 21
        JAN 27
                A new search aid, the Company Name Thesaurus, available in
                CA/CAplus
NEWS 22
        FEB 05
                German (DE) application and patent publication number format
                changes
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                MEDLINE and LMEDLINE reloaded
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        MAR 03 MEDLINE file segment of TOXCENTER reloaded
NEWS 25
        MAR 03 FRANCEPAT now available on STN
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Publisher: AMER SOC MICROBIOLOGY, 1752 N ST NW,

WASHINGTON, DC 20036-2904 USA.

ISSN: 0019-9567. Article; Journal

DOCUMENT TYPE: LANGUAGE:

English

REFERENCE COUNT:

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

Development of an effective vaccine against Leishmania infection is a AΒ priority of tropical disease research. We have recently demonstrated protection against Leishmania major in the murine and nonhuman primate models with individual or combinations of purified leishmanial recombinant antigens delivered as plasmid DNA constructs or formulated with recombinant interleukin-12 (IL-12) as adjuvant. In the present study, we immunized BALB/c mice with a recombinant polyprotein comprising a tandem fusion of the leishmanial antiqens thiol-specific antioxidant, L. major stress-inducible protein 1 (LmST11), and Leishmania elongation initiation factor (LeIF) delivered with adjuvants suitable for human use. Aspects of the safety, immunogenicity, and vaccine efficacy of formulations with each individual component, as well as the pollyprotein referred to as Leish-111f, were assessed by using the L. major challenge model with BALB/c mice. No adverse reactions were observed when three subcutaneous injections of the Leish-111f polyprotein formulated with either MPL-squalene (SE) or Ribi 529-SE were given to BALB/c mice. A predominant Th1 immune response characterized by in vitro lymphocyte proliferation, gamma interferon production, and immunoglobulin G2A antibodies was observed with little, if any, IL-4. Moreover, Leish-111f formulated with MPL-SE conferred immunity to leishmaniasis for at least 3 months. These data demonstrate success at designing and developing a prophylactic leishmaniasis vaccine that proved effective in a preclinical model using multiple leishmanial antigens produced as a single protein delivered with a powerful Th1 adjuvant suitable for human use.

ANSWER 2 OF 9 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN

ACCESSION NUMBER:

2002:337829 SCISEARCH

THE GENUINE ARTICLE: 540RR

TITLE: Prime-boost vaccines encoding an intracellular idiotype/GM-CSF fusion protein induce protective

cell-mediated immunity in murine pre-B cell leukemia

Pasquini S (Reprint); Peralta S; Missiaglia E; Carta L; AUTHOR:

Lemoine N R

Univ London Imperial Coll Sci Technol & Med, Sch Med, CORPORATE SOURCE:

> Hammersmith Hosp, Imperial Canc Res Fund, Mol Oncol Unit, London W12 OHS, England (Reprint); Wistar Inst Anat &

Biol, Philadelphia, PA 19104 USA

COUNTRY OF AUTHOR:

England; USA

SOURCE:

GENE THERAPY, (APR 2002) Vol. 9, No. 8, pp. 503-510. Publisher: NATURE PUBLISHING GROUP, MACMILLAN BUILDING, 4

CRINAN ST, LONDON N1 9XW, ENGLAND.

ISSN: 0969-7128.

DOCUMENT TYPE:

Article; Journal

LANGUAGE:

English

REFERENCE COUNT:

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

Two vaccines against an intracellularly expressed B cell idlotype were assessed for their ability to induce protective immunity in mice against challenge with a pre-B cell leukemia. One vaccine was based on a plasmid expression vector and the other was a recombinant vaccinia virus; both vaccines expressed a polypeptide derived from the complementaritydetermining regions (CDR2-CDR3) of the leukemic clone-specific immunoglobulin heavy chain (IgH), as a fusion product

with mouse granulocyte-macrophage colony-stimulating factor (mGM-CSF). Mice inoculated with either vaccine showed significantly higher survival rates than controls after challenge with leukemia cells. However, protection from tumor challenge was optimal when the DNA vaccine was used for priming, followed by a booster immunization with the vaccinia virus recombinant. This vaccination protocol induced resistance not only to the first tumor challenge given shortly afterwards, but also to a second challenge given months later. Both CD4+ and CD8+ T cells contributed to protection in vaccinated mice. These data suggest that such a vaccine regimen might reduce the incidence of recurrence in patients with minimal residual disease after conventional therapy.

ANSWER 3 OF 9 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN

2002:19753 SCISEARCH ACCESSION NUMBER:

THE GENUINE ARTICLE: 504FX

Bacterial lipoprotein-based vaccines induce tumor necrosis TITLE:

factor-dependent type 1 protective immunity against

Leishmania major

Cote-Sierra J; Bredan A; Toldos C M; Stijlemans B; Brys L; AUTHOR:

Cornelis P; Segovia M; de Baetselier P; Revets H (Reprint)

Free Univ Brussels, Flanders Interuniv Inst Biotechnol, CORPORATE SOURCE:

Dept Immunol Parasitol & Ultrastruct, Paardenstr 65, B-1640 Rhode St Genese, Belgium (Reprint); Free Univ Brussels, Flanders Interuniv Inst Biotechnol, Dept Immunol Parasitol & Ultrastruct, B-1640 Rhode St Genese, Belgium; Univ Murcia, Fac Med, Dept Genet & Microbiol, Murcia,

COUNTRY OF AUTHOR:

Belgium; Spain

INFECTION AND IMMUNITY, (JAN 2002) Vol. 70, No. 1, pp. SOURCE:

Publisher: AMER SOC MICROBIOLOGY, 1752 N ST NW,

WASHINGTON, DC 20036-2904 USA.

ISSN: 0019-9567.

DOCUMENT TYPE: Article: Journal

English LANGUAGE:

REFERENCE COUNT: 47

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

Immunity against Leishmania major requires rapid induction of a type 1 AΒ immune response in which tumor necrosis factor alpha (TNF-a) plays an essential role. Hence, vaccination strategies that simulate the protective immune response found in hosts that have recovered from natural infection provide a rational approach to combat leishmaniasis. One method for optimizing the qualitative and quantitative immune responses after vaccination is to use an adjuvant. In this study we demonstrate that the OprI lipoprotein (L-OprI) from Pseudomonas aeruginosa induces a long-term cellular (gamma interferon [IFN-gamma]) and humoral (immunoglobulin G2a) type 1 immune response against a truncated 32-kDa version (COOHgp63) of the 63-kDa major cell surface glycoprotein gp63. By contrast, immunization with COOHgp63 either fused to OprI nonlipoprotein or with no adjuvant did not result in the induction of type 1 immune responses. The adjuvanticity of L-OprI is strongly dependent on its capacity to induce TNF-alpha, since generation of type I immune responses is clearly delayed and impaired in TNF-alpha (-/-) mice. Vaccination with L-OprICOOHgp63 fusion protein protected BALB/c mice against L. major infection for at least 19 weeks. Vaccinated mice were largely free of lesions or clearly controlled lesion size on termination of the experiment. The control of disease progression in mice vaccinated with L-OprICOOHgp63 was associated with enhancement of antigen-specific IFN-gamma production. These data indicate that bacterial lipoproteins constitute appropriate adjuvants to include in vaccines against diseases in which type 1 immune responses are important for

protection.

ANSWER 4 OF 9 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN

ACCESSION NUMBER: 2002:529225 SCISEARCH

THE GENUINE ARTICLE: 565MG

TITLE:

Molecular cloning, expression and partial characterization

of Xksy, Xenopus member of the Sky family of receptor

tyrosine kinases

AUTHOR: Kishi Y A; Funakoshi H; Matsumoto K; Nakamura T (Reprint)

CORPORATE SOURCE: Osaka Univ, Grad Sch Med, Course Adv Med, Div Mol

> Regenerat Med, 2-2 Yamadaoka, Suita, Osaka 5650871, Japan (Reprint); Osaka Univ, Grad Sch Med, Course Adv Med, Div

Mol Regenerat Med, Suita, Osaka 5650871, Japan

COUNTRY OF AUTHOR:

Japan '

SOURCE: GENE, (17 APR 2002) Vol. 288, No. 1-2, pp. 29-40.

Publisher: ELSEVIER SCIENCE BV, PO BOX 211, 1000 AE

AMSTERDAM, NETHERLANDS.

ISSN: 0378-1119.

DOCUMENT TYPE:

Article; Journal

LANGUAGE:

English

38

REFERENCE COUNT:

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

We isolated a cDNA encoding the Xenopus member of Sky/Axl/Mer receptor AR tyrosine kinase family (referred as Sky family), termed Xksy. The predicted Xksy protein has conserved structural characteristics of the Sky family: an unique extracellular domain of two immunoglobulin (Iq)-like repeats, two fibronectin type III (FNIII)-like repeats and an intracellular tyrosine kinase. Homology analysis of Xksy showed the highest identity to mammalian Sky protein. In contrast to the predominant expression of sky mRNA in the adult mammalian nervous system, Northern blot analysis showed ubiquitous expression of a single 5.2-kb Xksy mRNA in tissues of the adult Xenopus. RNase protection assays revealed that, during development, Xksy mRNA is expressed from mid neurulation stage. Levels increase through the tadpole stage and become restricted to the head region in embryos by stage 40. Whole-mount in situ hybridization analyses revealed that expression of Xksy is localized to the nervous system of the tadpole stage, including origins of sensory organs and branchial arches. When a chimeric receptor (EGFR-Xksy), composed of the extracellular region of epidermal growth factor (EGF) receptor and the transmembrane/ intracellular regions of Xksy, was expressed in a doxycycline repressive manner in HEK 293 cells, EGF-stimulus without doxycycline induced tyrosine phosphorylation of the chimeric receptor and evoke morphological changes. EGF treatment also induced growth modifications of EGFR-Xksy cells. And doxycycline pre-treatment eliminated these activities. These findings suggest that Xksy may play an important role in growth, differentiation and the accurate migration of cells during embryogenesis and early neural development. (C) 2002 Elsevier Science B.V. All rights reserved.

ANSWER 5 OF 9 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN

ACCESSION NUMBER: 2000:723483 SCISEARCH

THE GENUINE ARTICLE: 3550E

Genetic immunization of BALB/c mice with a plasmid bearing TITLE:

> the gene coding for a hybrid merozoite surface protein 1-hepatitis B virus surface protein fusion protects mice against lethal Plasmodium chabaudi chabaudi PC1 infection

Wunderlich G (Reprint); Moura I C; delPortillo H A AUTHOR:

CORPORATE SOURCE: UNIV SAO PAULO, INST CIENCIAS BIOMED 2, AVENIDA PROF LINEU

PRESTES 1374, BR-05508900 SAO PAULO, BRAZIL (Reprint)

BRAZIL COUNTRY OF AUTHOR:

SOURCE: INFECTION AND IMMUNITY, (OCT 2000) Vol. 68, No. 10, pp. 5839-5845.

Publisher: AMER SOC MICROBIOLOGY, 1752 N ST NW,

WASHINGTON, DC 20036-2904.

ISSN: 0019-9567. Article; Journal

DOCUMENT TYPE: FILE SEGMENT:

LIFE English

LANGUAGE:

REFERENCE COUNT:

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS The genetic immunization of rodents with a plasmid coding for a AB Plasmodium chabaudi merozoite surface protein 1 (C terminus)-hepatitis B virus surface fusion protein (pPcMSP1(19)-HBs) provided protection of mice against subsequent lethal challenge with P. chabaudi chabaudi PCI-infected red blood cells. The percentage of survivor mice was higher in DNA-immunized mice than in animals immunized with a

recombinant rPcMSP1(19)-glutathione S-transferase fusion protein administered in Freund adjuvant, In all mice immunized with the pPcMSP1(19)-HBs, a Th1-specific response, including the production of anti-MSP1(19)-specific immunoglobulins predominantly of the immunoglobulin G2a subtype and reacting almost exclusively against discontinuous epitopes, was elicited. The coinjection of Th1-type cytokine-expressing plasmids (gamma interferon, interleukin-2, and granulocyte-macrophage colony-stimulating factor) mostly abolished protection and boosting of MSP1(19)-specific

antibodies. The inclusion of a lymph node-targeting signal did not

significantly increase protection. These data provide further evidence that MSP1(19)-HBs DNA constructs might be useful as components of a genetic vaccine against the asexual blood stages of Plasmodium.

ANSWER 6 OF 9 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN

ACCESSION NUMBER:

97:703252 SCISEARCH

THE GENUINE ARTICLE: XW396

TITLE:

Modulation of keratinocyte growth factor receptor

expression in human cultured keratinocytes

AUTHOR:

Marchese C; Sorice M; DeStefano C; Frati L; Torrisi M R

(Reprint)

CORPORATE SOURCE:

UNIV ROMA LA SAPIENZA, DIPARTIMENTO SPERIMENTALE & PATOL, VIALE REGINA ELENA 324, I-00161 ROME, ITALY (Reprint); UNIV ROMA LA SAPIENZA, DIPARTIMENTO SPERIMENTALE & PATOL, I-00161 ROME, ITALY; IST NAZL RIC CANC, SEZ BIOTECNOL,

ROME, ITALY; OSPED PEDIAT BAMBINO GESU, IRCCS, DIPARTIMENTO CHIRURG PLAST, ROME, ITALY; IST NEUROL

MEDITERRANEO NEUROMED, POZZILLI, ITALY

COUNTRY OF AUTHOR:

ITALY

SOURCE:

CELL GROWTH & DIFFERENTIATION, (SEP 1997) Vol. 8, No. 9,

pp. 989-997.

Publisher: AMER ASSOC CANCER RESEARCH, PUBLIC LEDGER BLDG, SUITE 816, 150 S. INDEPENDENCE MALL W., PHILADELPHIA, PA

ISSN: 1044-9523.

DOCUMENT TYPE: FILE SEGMENT:

Article: Journal LIFE

LANGUAGE:

English

REFERENCE COUNT:

33

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

Keratinocyte growth factor (KGF) belongs to the fibroblast AΒ growth factor (FGF) family, and its activity seems to be restricted to epithelial cells. It elicits its biological effects through binding to the KGF receptor (KGFR), a splicing transcript variant of FGF receptor 2 (FGFR2). The presence of multiple isoforms of FGFR2 and the overlapping specificities of the FGFs with respect to their receptors do

not allow the use of anti-FGFR antibodies as specific immunocytochemical tools. Here we used a chimeric protein recently obtained by the fusion of KGF to the HFc portion of immunoglobulin G (La Rochelle et at, J. Cell Biol., 129: 357~366, 1995) to analyze the expression and distribution of KGFRs in human keratinocytes cultured in chemically defined medium and incubated with different Ca2+ concentrations to modulate their differentiation. We observed at both immunofluorescence and electron microscopic levels and by Western blot analysis of proliferation (K6) or differentiation (K1) markers that KGFR expression is up-modulated during keratinocyte differentiation. Cytofluorimetric and Western blot analysis revealed that exposure to the high Ca2+ differentiation signal resulted in a significant increase in KGFRs. RNase protection assay using a KGFR-specific cDNA probe demonstrated that this effect was-correlated with a >4-fold increase in KGFR transcript level. Our results suggest that the expression of KGFR, unlike that of the epidermal growth factor receptor, may control the proliferative-differentiative program from basal to suprabasal cells in human skin.

L4 ANSWER 7 OF 9 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN

ACCESSION NUMBER: 94:610350 SCISEARCH

THE GENUINE ARTICLE: PH298

TITLE: PASSIVE-IMMUNITY TO YERSINIAE MEDIATED BY ANTI-RECOMBINANT

V-ANTIGEN AND PROTEIN A-V-ANTIGEN FUSION PEPTIDE

AUTHOR: MOTIN V L; NAKAJIMA R; SMIRNOV G B; BRUBAKER R R (Reprint)

CORPORATE SOURCE: MICHIGAN STATE UNIV, DEPT MICROBIOL, E LANSING, MI, 48824

(Reprint); MICHIGAN STATE UNIV, DEPT MICROBIOL, E LANSING, MI, 48824; NF GAMALEI INST EPIDEMIOL & MICROBIOL, MOSCOW

123098, RUSSIA

COUNTRY OF AUTHOR:

USA; RUSSIA

SOURCE:

INFECTION AND IMMUNITY, (OCT 1994) Vol. 62, No. 10, pp.

4192-4201.

ISSN: 0019-9567.

DOCUMENT TYPE:

Article: Journal

FILE SEGMENT: LANGUAGE: LIFE ENGLISH

REFERENCE COUNT:

68

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

AB LcrV (V antigen), a known unstable 37.3-kDa monomeric peptide encoded on the ca. 70-kb Lcr plasmid of Yersinia pestis, Yersinia

pseudotuberculosis, and Yersinia enterocolitica, has been implicated as a regulator of the low-calcium response, virulence factor, and protective antigen. In this study, lcrV of Y. pestis was cloned into protease-deficient Escherichia coli BL21. The resulting recombinant V antigen underwent marked degradation from the C-terminal end during purification, yielding major peptides of 36, 35, 34, and 32 to 29 kDa. Rabbit gamma globulin raised against this mixture of cleavage products provided significant protection against 10 minimum lethal doses of Y. pestis (P < 0.01) and Y. pseudotuberculosis (P < 0.02). To both stabilize V antigen and facilitate its purification, plasmid pPAV13 was constructed so as to encode a fusion of lcrV and the structural gene for protein A (i.e., all but the first 67 N-terminal amino acids of V antigen plus the signal sequence and immunoglobulin G-binding domains but not the cell wall-associated region of protein A). The resulting fusion peptide, termed PAV, could be purified to homogeneity in one step by immunoglobulin G affinity chromatography and was stable thereafter. Rabbit polyclonal gamma globulin directed against PAV provided excellent passive immunity against 10 minimum lethal doses of Y. pestis (P < 0.005) and Y. pseudotuberculosis (P< 0.005) but was ineffective against Y. enterocolitica. Protection failed after absorption with excess PAV, cloned whole V antigen, or a

large (31.5-kDa) truncated derivative of the latter but was retained (P < 0.005) upon similar absorption with a smaller (19.3-kDa) truncated variant, indicating that at least one protective epitope resides internally between amino acids 168 and 275.

ANSWER 8 OF 9 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN

ACCESSION NUMBER: 94:761895 SCISEARCH

THE GENUINE ARTICLE: PU361

PROTECTIVE EFFECT OF 55-KD BUT NOT 75-KD SOLUBLE TITLE

> TUMOR-NECROSIS-FACTOR RECEPTOR IMMUNOGLOBULIN-G FUSION PROTEINS IN AN ANIMAL-MODEL OF GRAM-NEGATIVE SEPSIS EVANS T J; MOYES D; CARPENTER A; MARTIN R; LOETSCHER H;

LESSLAUER W; COHEN J (Reprint)

ROYAL POSTGRAD MED SCH, DEPT INFECT DIS & BACTERIOL, DU CORPORATE SOURCE:

CANE RD, LONDON W12 ONN, ENGLAND (Reprint); ROYAL POSTGRAD MED SCH, DEPT INFECT DIS & BACTERIOL, LONDON W12 ONN, ENGLAND; F HOFFMANN LA ROCHE & CO LTD, CH-4002 BASEL,

SWITZERLAND

COUNTRY OF AUTHOR:

ENGLAND; SWITZERLAND

SOURCE:

AUTHOR:

JOURNAL OF EXPERIMENTAL MEDICINE, (01 DEC 1994) Vol. 180,

No. 6, pp. 2173-2179.

ISSN: 0022-1007.

DOCUMENT TYPE:

Article; Journal LIFE

FILE SEGMENT: LANGUAGE:

ENGLISH

REFERENCE COUNT:

36

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS The aim of this study was to compare the ability of both a 55- and AB

75-kD soluble tumor necrosis factor receptor

immunoglobulin G fusion protein (sTNFR-IgG) in protecting against death in a murine model of gram-negative sepsis. Pretreatment with 250 mu g of the p75 construct delayed but did not avert death in this model, reducing peak bioactive TNF-alpha levels after infection from 76.4 ng ml(-1) in control mice to 4.7 ng ml(-1) in the treated group (p<0.05: two-sample t test). However, these low levels of bioactive TNF-alpha persisted in the p75 fusion protein-treated animals compared with the controls and were sufficient to mediate delayed death. In contrast, pretreatment with 200 mu g of the p55 sTNFR-IgG gave excellent protection against death with complete neutralization of circulating TNF. Studies of the binding of TNF-alpha with the soluble TNFR fusion proteins showed that the p75 fusion

construct exchanges bound TNF-alpha about 50-100-fold faster than the p55 fusion protein. Thus, although both fusion proteins in equilibrium bind TNF-alpha with high affinity, the TNF-alpha p55 fusion protein complex is kinetically more stable than the p75 fusion construct, which thus acts as a TNF carrier. The persistent

release of TNF-alpha from the p75 fusion construct limits its therapeutic effect in this model of sepsis.

ANSWER 9 OF 9 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN

ACCESSION NUMBER: 91:314899 SCISEARCH

THE GENUINE ARTICLE: FP086

TITLE: A PROTEIN WITH A BINDING-SPECIFICITY SIMILAR TO NF-KAPPA-B

BINDS TO A STEROID-DEPENDENT REGULATORY ELEMENT IN THE

OVALBUMIN GENE

AUTHOR: SCHWEERS L A; SANDERS M M (Reprint)

UNIV MINNESOTA, DEPT BIOCHEM, MINNEAPOLIS, MN, 55455 CORPORATE SOURCE:

COUNTRY OF AUTHOR:

SOURCE:

JOURNAL OF BIOLOGICAL CHEMISTRY, (1991) Vol. 266, No. 16,

pp. 10490-10497.

DOCUMENT TYPE:

Article; Journal

FILE SEGMENT: LIFE LANGUAGE: ENGLISH

REFERENCE COUNT: 47

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

The chicken ovalbumin gene is regulated at the level of transcription by four classes of steroid hormones. A steroid-dependent regulatory element (SDRE) found from -900 to -732 is required for this steroid-mediated induction. To define more precisely sequences of the SDRE required for steroidal induction, a series of exonuclease III deletions were made in the 3' end of the SDRE. Fusion genes containing the mutant ovalbumin 5'-flanking sequences linked to the chloramphenicol acetyltransferase structural gene (CAT) were transfected into steroid-responsive primary oviduct cells. These functional studies defined a region of the SDRE from -793 to -759 that is essential for induction by steroids. Analysis of protein interactions in this 34-base pair region by copper-phenanthroline footprinting and methylation interference assays defined nucleotides required for protein binding. Footprinting showed protection of residues extending from -784 to -765, an area that included nucleotides that, when methylated, interfered with protein binding. In addition, this footprinted region contained 10 nucleotides that were identical to sequences contained in the beta-interferon gene regulatory element. An oligomer synthesized to this region of homology produced two DNA-protein complexes with oviduct nuclear proteins. Although this region of the interferon gene regulatory element binds the transcription factor NF-kappa-B, an oligomer from the immunoqlobulin kappa-light chain gene known to bind NF-kappa-B did not compete with the SDRE oligomer for binding to oviduct nuclear proteins. Surprisingly, this same NF-kappa-B oligomer was able to restore steroid responsiveness to an SDRE mutant, while an oligomer from the immunoglobulin heavy chain gene inserted in the same position did not affect induction by steroids. These data suggest that a protein binding to sequences in the SDRE that are similar to an NF-kappa-B-binding site participates in the steroid-mediated increase in transcription of the chicken ovalbumin gene.

=> d his (FILE 'HOME' ENTERED AT 13:50:07 ON 22 MAR 2004) FILE 'MEDLINE, CAPLUS, SCISEARCH, BIOSIS' ENTERED AT 13:50:21 ON 22 MAR 2004 110 S IMMUNOGLOBULIN(S) PROTECTION(S) FACTOR OR FCRP L143808 S (CHIMERIC OR CHIMERA OR FUSION) (S) (ANTIBODY OR ANTIBODIES OR L2L3 9 S L1(P)L2 9 DUP REM L3 (0 DUPLICATES REMOVED) L4 => s immunoglobulin(w)protection(w)factor or fcrp 17 IMMUNOGLOBULIN(W) PROTECTION(W) FACTOR OR FCRP L5=> s 13 and 15 L6 0 L3 AND L5 => s (chimeric or chimera or fusion) (p) (antibody? or antibodies? or immunoglobulin?) 66310 (CHIMERIC OR CHIMERA OR FUSION) (P) (ANTIBODY? OR ANTIBODIES? OR L7 IMMUNOGLOBULIN?) \Rightarrow s 17 and 15 0 L7 AND L5 L8

=> s (immunoglobulin?(w)protection?(w)factor?) or fcrp

17 (IMMUNOGLOBULIN?(W) PROTECTION?(W) FACTOR?) OR FCRP 1,9 => s 19 and 17 0 L9 AND L7 => file medline caplus scisearch biosis uspatfull pctfull COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 98.30 98.51 FILE 'MEDLINE' ENTERED AT 13:55:08 ON 22 MAR 2004 FILE 'CAPLUS' ENTERED AT 13:55:08 ON 22 MAR 2004 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS) FILE 'SCISEARCH' ENTERED AT 13:55:08 ON 22 MAR 2004 COPYRIGHT 2004 THOMSON ISI FILE 'BIOSIS' ENTERED AT 13:55:08 ON 22 MAR 2004 COPYRIGHT (C) 2004 BIOLOGICAL ABSTRACTS INC. (R) FILE 'USPATFULL' ENTERED AT 13:55:08 ON 22 MAR 2004 CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS) FILE 'PCTFULL' ENTERED AT 13:55:08 ON 22 MAR 2004 COPYRIGHT (C) 2004 Univentio => s (immunoglobulin?(w)protection?(w)factor?) or fcrp 147 (IMMUNOGLOBULIN?(W) PROTECTION?(W) FACTOR?) OR FCRP L11=> s (chimeric or chimera or fusion) (p) (antibody? or antibodies? or immunoglobulin?) 133192 (CHIMERIC OR CHIMERA OR FUSION) (P) (ANTIBODY? OR ANTIBODIES? OR L12IMMUNOGLOBULIN?) => s 111 and 112 T-13 126 L11 AND L12 => dup rem 113 PROCESSING COMPLETED FOR L13 126 DUP REM L13 (0 DUPLICATES REMOVED) 1.14 => s 111(p)112L15 76 L11(P) L12 => dup rem 115 PROCESSING COMPLETED FOR L15 L16 76 DUP REM L15 (0 DUPLICATES REMOVED) => s (mutation or deletion or substitution)(s)fc L17 5052 (MUTATION OR DELETION OR SUBSTITUTION) (S) FC => s 116 and 117 9 L16 AND L17 L18 => d ibib abs 1-9 L18 ANSWER 1 OF 9 USPATFULL on STN ACCESSION NUMBER: 2003:153626 USPATFULL TITLE: ENHANCING THE CIRCULATING HALF LIFE OF ANTIBODY-BASED

FUSION PROTEINS

GILLIES, STEPHEN, CARLISLE, MA, UNITED STATES INVENTOR(S):

LO, KIN-MING, LEXINGTON, MA, UNITED STATES

LAN, YAN, BELMONT, MA, UNITED STATES

WESOLOWSKI, JOHN, WEYMOUTH, MA, UNITED STATES

NUMBER KIND DATE

PATENT INFORMATION: APPLICATION INFO.:

-----US 2003105294 A1 20030605 US 1999-256156 A1 19990224 (9)

NUMBER DATE _____

PRIORITY INFORMATION:

US 1998-75887P 19980225 (60)

DOCUMENT TYPE:

Utility

FILE SEGMENT:

APPLICATION

LEGAL REPRESENTATIVE: TESTA, HURWITZ & THIBEAULT, LLP, HIGH STREET TOWER, 125

HIGH STREET, BOSTON, MA, 02110

NUMBER OF CLAIMS: 26
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 7 Drawing Page(s)

LINE COUNT:

1022

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

Disclosed are methods for the genetic construction and expression of antibody-based fusion proteins with enhanced circulating half-lives. The fusion proteins of the present invention lack the ability to bind to immunoglobulin Fc receptors, either as a consequence of the antibody isotype used for fusion protein construction, or through directed mutagenesis of antibody isotypes that normally bind Fc receptors. The fusion proteins of the present invention may also contain a functional

domain capable of binding an immunoglobulin protection receptor.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L18 ANSWER 2 OF 9 USPATFULL on STN

ACCESSION NUMBER:

2003:64303 USPATFULL

TITLE:

Expression technology for proteins containing a hybrid

isotype antibody moiety

INVENTOR(S):

Gillies, Stephen D., Carlisle, MA, UNITED STATES

Way, Jeffrey, Cambridge, MA, UNITED STATES Lo, King-Ming, Lexington, MA, UNITED STATES

PATENT ASSIGNEE(S):

Lexigen Pharmaceuticals Corp., Lexington, MA (U.S.

corporation)

NUMBER KIND DATE ______

PATENT INFORMATION: US 2003044423 A1 20030306 APPLICATION INFO.: US 2002-93958 A1 20020307 (10)

APPLICATION INFO.:

NUMBER DATE -----

PRIORITY INFORMATION:

US 2001-274096P 20010307 (60)

DOCUMENT TYPE:

Utility

FILE SEGMENT:

APPLICATION

HIGH STREET, BOSTON, MA, 02110 LEGAL REPRESENTATIVE: TESTA, HURWITZ & THIBEAULT, LLP, HIGH STREET TOWER, 125

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

NUMBER OF DRAWINGS:

1 4 Drawing Page(s)

LINE COUNT:

2288

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

Disclosed are methods and compositions for efficiently expressing AΒ antibody fusion proteins. Antibody fusion proteins of the invention include a hybrid antibody moiety containing sequences from more than one type of antibody and/or mutant antibody sequences. Hybrid antibody fusion proteins of the invention may be produced at high levels and may combine functional properties characteristic of different antibody types in addition to functional properties of a non-antibody moiety.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L18 ANSWER 3 OF 9 USPATFULL on STN

ACCESSION NUMBER:

2002:266428 USPATFULL

TITLE:

Enhancing the circulating half-life of antibody-based

fusion proteins

INVENTOR(S):

Gillies, Stephen D., Carlisle, MA, UNITED STATES

Burger, Christa, Darmstadt, GERMANY, FEDERAL REPUBLIC

Lo, Kin-Ming, Lexington, MA, UNITED STATES

NUMBER KIND DATE _____ US 2002147311 A1 20021010 US 2001-780668 A1 20010209 (9)

PATENT INFORMATION: APPLICATION INFO.:

> DATE NUMBER

PRIORITY INFORMATION:

_____ US 2000-181768P 20000211 (60)

DOCUMENT TYPE:

Utility

FILE SEGMENT:

APPLICATION

LEGAL REPRESENTATIVE: TESTA, HURWITZ & THIBEAULT, LLP, HIGH STREET TOWER, 125

HIGH STREET, BOSTON, MA, 02110

NUMBER OF CLAIMS:

EXEMPLARY CLAIM: NUMBER OF DRAWINGS:

6 Drawing Page(s)

LINE COUNT:

1491

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

Disclosed are compositions and methods for enhancing the circulating AB half-life of antibody-based fusion proteins. Disclosed methods and compositions rely on altering the amino acid sequence of the junction region between the antibody molety and the fused protein molety in an $\,$ antibody-based fusion protein. An antibody-based fusion protein with an altered amino acid sequence in the junction region has a greater circulating half-life when administered to a mammal. Disclosed methods and compositions are particularly useful for reducing tumor size and metastasis in a mammal.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ANSWER 4 OF 9

PCTFULL COPYRIGHT 2004 Univentio on STN 2002072605 PCTFULL ED 20020927 EW 200238

ACCESSION NUMBER: TITLE (ENGLISH):

EXPRESSION TECHNOLOGY FOR PROTEINS CONTAINING A HYBRID

ISOTYPE ANTIBODY MOIETY

TITLE (FRENCH):

TECHNIQUE D'EXPRESSION POUR DES PROTEINES CONTENANT UN

FRAGMENT D'ANTICORPS ISOTYPE CHIMERIQUE

INVENTOR (S):

GILLIES, Stephen, D., 159 Sunset Road, Carlisle, Ma

01741, US;

WAY, Jeffrey, 108 Fayerweather Street, Cambridge, MA

02138, US

PATENT ASSIGNEE(S):

LEXIGEN PHARMACEUTICALS CORP., 125 Hartwell Avenue,

Lexington, MA 02173, US [US, US]

AGENT:

WALLER, Patrick, R., H.\$, Testa, Hurwitz & Thibeault,

L.L.P., High Street Tower, 125 High Street, Boston, MA

02110\$, US

LANGUAGE OF FILING: LANGUAGE OF PUBL.: DOCUMENT TYPE:

English English Patent

PATENT INFORMATION:

NUMBER KIND DATE _______

WO 2002072605

A2 20020919

DESIGNATED STATES

W:

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA ZM ZW

GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

RW (ARIPO): RW (ARIPO): RW (EAPO):

AM AZ BY KG KZ MD RU TJ TM

RW (EPO):

AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

TR

BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

RW (OAPI):
APPLICATION INFO.:

WO 2002-US7011 A 20020307

PRIORITY INFO.:

US 2001-60/274,096

20010307

Disclosed are methods and compositions for efficiently expressing antibody fusion proteins. Antibody fusion proteins of the invention include a hybrid antibody moiety containing sequences from more than one type of antibody and/or mutant antibody sequences. Hybrid antibody fusion proteins of the invention may be produced at high levels and may combine functional properties characteristic of different antibody types in addition to functional properties of a non-antibody moiety.

L'invention concerne des procedes et des compositions permettant ABFR d'exprimer efficacement des proteines hybrides d'anticorps. Les proteines hybrides d'anticorps de cette invention comprennent un fragment d'anticorps chimerique contenant des sequences de plus d'un type de sequences d'anticorps et/ou d'anticorps mutants. Les proteines hybrides d'anticorps chimerique de cette invention peuvent etre produites a des niveaux eleves et peuvent combiner des proprietes fonctionnelles caracteristiques de differents types d'anticorps a des proprietes fonctionnelles d'un fragment qui n'est pas d'un anticorps.

ANSWER 5 OF 9 T.18

PCTFULL COPYRIGHT 2004 Univentio on STN

ACCESSION NUMBER:

2001058957 PCTFULL ED 20020827

TITLE (ENGLISH):

ENHANCING THE CIRCULATING HALF-LIFE OF ANTIBODY-BASED

FUSION PROTEINS

TITLE (FRENCH):

AMELIORATION DE LA DEMI-VIE CIRCULANTE DE PROTEINES DE

FUSION A BASE D'ANTICORPS

INVENTOR(S):

GILLIES, Stephen, D.;

BURGER, Christa;

LO, Kin, Ming

PATENT ASSIGNEE(S):

LEXIGEN PHARMACEUTICALS CORP.

DOCUMENT TYPE:

Patent

PATENT INFORMATION:

KIND NUMBER DATE A2 20010816 WO 2001058957

DESIGNATED STATES

W:

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW GH GM KE LS MW MZ SD SL SZ TZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR BF BJ CF CG

CI CM GA GN GW ML MR NE SN TD TG

APPLICATION INFO.: WO 2001-US4455 A 20010209 PRIORITY INFO.: US 2000-60/181,768 20000211

Disclosed are compositions and methods for enhancing the circulating ABEN half-life of antibody-based fusion proteins. Disclosed methods and compositions rely on altering the amino acid sequence of the junction region between the antibody moiety and the fused protein moiety in an antibody-based fusion protein. An antibody-based fusion protein with an altered amino acid sequence in the junction region has a greater circulating half-life when administered to a mammal. Disclosed methods and compositions are particularly useful for reducing tumor size and

ABFR L'invention concerne des compositions et des methodes permettant d'ameliorer la demi-vie circulante de proteines de fusion a base d'anticorps. Ces methodes et ces compositions consistent a modifier la sequence d'acide amine de la region de jonction entre la fraction d'anticorps et la fraction de proteine fusionnee dans une proteine de fusion a base d'anticorps. Une proteine de fusion a base d'anticorps comportant une sequence d'acide amine modifiee dans sa region de jonction possede une demi-vie circulante plus longue lorsqu'elle administree a un mammifere. Ces methodes et ces compositions sont notamment utiles pour reduire la taille des tumeurs et les metastases chez un mammifere.

PCTFULL COPYRIGHT 2004 Univentio on STN

2001021816 PCTFULL ED 20020820

MODULATION OF IGE RECEPTOR CELL SURFACE EXPRESSION PROCEDE DE MODULATION DE L'EXPRESSION DE LA SURFACE TITLE (FRENCH):

D'UNE CELLULE RECEPTRICE DE L'IMMUNOGLOBINE E

INVENTOR(S): KINET, Jean-Pierre:

metastasis in a mammal.

DONNADIEU, Emmanuel; JOUVIN, Marie-Helene; COOKSON, William; MOFFATT, Miriam, Fleur

PATENT ASSIGNEE(S): ISIS INNOVATION LIMITED;

BETH ISRAEL DEACONESS MEDICAL CENTER, INC.;

KINET, Jean-Pierre; DONNADIEU, Emmanuel; JOUVIN, Marie-Helene; COOKSON, William; MOFFATT, Miriam, Fleur

DOCUMENT TYPE: Patent

PATENT INFORMATION:

NUMBER KIND DATE ______

WO 2001021816 A1 20010329

DESIGNATED STATES

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU W: CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN

IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW GH GM KE LS MW MZ SD SL SZ TZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ CF CG

CI CM GA GN GW ML MR NE SN TD TG

A 20000921 APPLICATION INFO.: WO 2000-US25877 US 1999-60/154,924 PRIORITY INFO.: 19990921

ABEN The invention relates to methods and related compositions for modulating cell surface expression of the high affinity receptor for immunoglobulin E, the Fc¾RI receptor. The invention also relates to methods and

related compositions for the treatment and/or prevention of conditions mediated by IgE such as allergic conditions.

ABFR

L18 ANSWER 7 OF 9 PCTFULL COPYRIGHT 2004 Univentio on STN

ACCESSION NUMBER: 2000009560 PCTFULL ED 20020515

TITLE (ENGLISH): GENERATION OF MODIFIED MOLECULES WITH INCREASED SERUM

HALF-LIVES

TITLE (FRENCH): PRODUCTION DE MOLECULES MODIFIEES AVEC DEMI-VIE SERIQUE

PROLONGEE

INVENTOR(S): GALLO, Michael;

JUNGHANS, Richard;

FOORD, Orit

PATENT ASSIGNEE(S):

ABGENIX, INC.

LANGUAGE OF PUBL.: DOCUMENT TYPE: English Patent

PATENT INFORMATION:

NUMBER KIND DATE

WO 2000009560 A2 20000224

DESIGNATED STATES

W :

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TD TG

APPLICATION INFO.: WO PRIORITY INFO.: US

WO 1999-US18777 A 19990817 US 1998-60/096,868 19980817

ABEN In accordance with the present invention, there are provided methods for the extension of serum

half-lives of proteinaceous molecules, particularly antibody molecules, and compositions of

molecules modified in accordance with the methods of the invention. In accordance with a first

aspect of the present invention, there is provided a method of modifying the half-life of an

antibody through providing an antibody containing an FcRn binding domain or the genes encoding such

antibody and physically linking the antibody or the antibody as encoded to a second FcRn binding

domain. In accordance with a second aspect of the present invention, there is provided a molecule

that contains at least two distinct FcRn binding moieties.

ABFR La presente invention concerne des procedes d'extension des demi-vies seriques de molecules

proteiniques, particulierement de molecules d'anticorps, cette invention concernant egalement des

compositions de molecules modifiees selon les procedes de l'invention. Un premier aspect de

l'invention concerne un procede de modification de la demi-vie d'un anticorps grace a un anticorps

comprenant un domaine de liaison FcRn, ou aux genes codant un tel anticorps fixant physiquement cet

anticorps ou l'anticorps ainsi code sur un second domaine de liaison FCRn. Un second aspect de

l'invention concerne une molecule renfermant au moins deux fractions de liaison FcRn distinctes.

ANSWER 8 OF 9 PCTFULL COPYRIGHT 2004 Univentio on STN T.18

ACCESSION NUMBER: 1999043713 PCTFULL ED 20020515

TITLE (ENGLISH): ENHANCING THE CIRCULATING HALF-LIFE OF ANTIBODY-BASED

FUSION PROTEINS

AMELIORATION DE LA DEMI-VIE CIRCULANTE DE PROTEINES TITLE (FRENCH):

HYBRIDES A BASE D'ANTICORPS

INVENTOR(S): GILLIES, Stephen, D.;

LO, Kin-Ming; LAN, Yan;

WESOLOWSKI, John

PATENT ASSIGNEE(S):

LEXIGEN PHARMACEUTICALS CORPORATION

LANGUAGE OF PUBL.: DOCUMENT TYPE:

English Patent

PATENT INFORMATION:

KIND DATE NUMBER ______ WO 9943713 A1 19990902

DESIGNATED STATES

AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE W·

ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW GH GM KE LS MW SD SZ UG ZW AM AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

APPLICATION INFO.: PRIORITY INFO.:

WO 1999-US3966 A 19990224 US 1998-60/075,887 19980225

ABEN Disclosed are methods for the genetic construction and expression of antibody-based fusion

proteins with enhanced circulating half-lives. The fusion proteins of the present invention lack the

ability to bind to immunoqlobulin Fc receptors, either as a consequence of the antibody isotype used

for fusion protein construction, or through directed mutagenesis of antibody isotypes that normally

bind Fc receptors. The fusion proteins of the present invention may also contain a functional domain

capable of binding an immunoglobulin protection receptor.

On decrit des procedes de construction genetique et d'expression de ABFR proteines hybrides a base

d'anticorps ayant une demi-vie circulante amelioree. Les proteines hybrides de l'invention sont

incapables de se lier aux recepteurs pour le fragment Fc des immunoglobulines, soit en consequence

de l'utilisation de l'isotype des anticorps pour construire la proteine hybride, soit par mutagenese

dirique des isotypes des anticorps qui se lient normalement aux recepteurs pour le fragment Fc. Les

proteines hybrides de l'invention peuvent egalement contenir un domaine fonctionnel capable de lier

un recepteur de protection des immunoglobulines.

ANSWER 9 OF 9 T.18 ACCESSION NUMBER: PCTFULL COPYRIGHT 2004 Univentio on STN

1997043316 PCTFULL ED 20020514

TITLE (ENGLISH):

PHYSIOLOGICALLY ACTIVE MOLECULES WITH EXTENDED

HALF-LIVES AND METHODS OF USING SAME

TITLE (FRENCH):

MOLECULES PHYSIOLOGIQUEMENT ACTIVES A DEMI-VIES

PROLONGEES ET METHODE D'UTILISATION DE CES DERNIERES

DUITLISATION DE CES
JUNGHANS, Richard, P.
PATENT ASSIGNEE(S): BETH ISRAEL DEACONESS MEDICAL CENTER, INC.
LANGUAGE OF PUBL: English

09/256156 22/03/2004 DOCUMENT TYPE: Patent PATENT INFORMATION: NUMBER KIND DATE WO 9743316 Al 19971120 DESIGNATED STATES CA JP AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT W: SE A 19970506 APPLICATION INFO.: WO 1997-US7707 PRIORITY INFO.: US 1996-60/017,249 19960510 US 1997-8/841,815 19970505 The present invention is drawn to physiologically active molecules which ABEN have extended half-lives in the circulatory system of a subject, compositions which include these molecules, methods of producing the molecules, and methods of using the molecules to treat subjects. The half-lives of the physiologically active molecules are extended by modifying their structure such that they are capable of binding to the IgG protection receptor FcRp. By modifying the physiologically active molecules in this manner, the invention takes advantage of the discovery that the FcRp and the FcRn are the same receptor and that modifying physiologically active molecules such that they are capable of binding the IgG protection receptor FcRp allows these molecules to escape lysosomal catabolism and remain in the circulation of a subject for longer periods of time. Molecules physiologiquement actives presentant une demi-vie prolongee ABFR dans le systeme circulatoire d'un sujet, compositions comprenant ces molecules, methodes de production de ces molecules et methodes d'utilisation de ces molecules a des fins therapeutiques. Les demi-vies de ces molecules physiologiquement actives sont prolongees par une modification de leur structure qui les rend capables de se fixer aux recepteurs FcRp protecteurs de l'IgG. En modifiant de cette maniere les molecules physiologiquement actives, on met a profit la decouverte du fait que le FcRp et le FcRn sont le meme recepteur et que la modification de ces molecules pour leur permettre de se fixer au recepteur de protection FcRp permet a ces molecules d'echapper au catabolisme lysosomal et de rester dans le systeme circulatoire d'un sujet pendant une plus longue duree. => d his (FILE 'HOME' ENTERED AT 13:50:07 ON 22 MAR 2004)

66310 S (CHIMERIC OR CHIMERA OR FUSION) (P) (ANTIBODY? OR ANTIBODIES? O L7 0 S L7 AND L5 L817 S (IMMUNOGLOBULIN? (W) PROTECTION? (W) FACTOR?) OR FCRP L90 S L9 AND L7 L10 FILE 'MEDLINE, CAPLUS, SCISEARCH, BIOSIS, USPATFULL, PCTFULL' ENTERED AT 13:55:08 ON 22 MAR 2004 147 S (IMMUNOGLOBULIN? (W) PROTECTION? (W) FACTOR?) OR FCRP L11133192 S (CHIMERIC OR CHIMERA OR FUSION) (P) (ANTIBODY? OR ANTIBODIES? O L12126 S L11 AND L12 L13 126 DUP REM L13 (0 DUPLICATES REMOVED) L1476 S L11(P)L12 L15 76 DUP REM L15 (0 DUPLICATES REMOVED) L16 5052 S (MUTATION OR DELETION OR SUBSTITUTION) (S) FC L179 S L16 AND L17 L18=> ---Logging off of STN---

Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS SINCE FILE TOTALENTRY SESSION 44.51 143.02 FULL ESTIMATED COST

STN INTERNATIONAL LOGOFF AT 13:58:29 ON 22 MAR 2004